Sandia National Laboratories

LIVERMORE, CALIFORNIA

POSITION: Postdoctoral Appointee – Nanoelectronics and Nanophotonics **JOB ID:** 64278

MANAGER: Sarah Allendorf

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, postdocs, and visiting researchers—all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear defense. To learn more, visit http://ca.sandia.gov/.

DEPARTMENT DESCRIPTION

The Materials Physics Department is part of the Biological and Materials Sciences Center at Sandia National Laboratories in Livermore, California. Department staff members conduct a broad and coordinated array of experimental and theoretical research to identify and understand the fundamental physical mechanisms underlying the surface, interface, and transport behavior of a variety of advanced materials. Our materials physics and chemistry modeling/simulation experts employ state-of-the-art density functional theory, molecular-dynamics simulation techniques, and quantum-transport approaches. Our department also has experimental expertise in and resources for nanofabrication; electronic, optoelectronic, and optical characterization; ultrahigh vacuum (UHV) technology; thin-film preparation; nanomaterials synthesis; and a wide range of advanced materials-characterization techniques (e.g., Auger electron spectroscopy [AES], atomic force microscopy [AFM], diffuse reflectance spectroscopy [DRS], low-energy electron diffraction [LEED], low-energy electron microscopy [LEEM], low-energy ion scattering [LEIS], secondary ion mass spectrometry [SIMS], and scanning tunneling microscopy [STM]).

JOB DESCRIPTION

Sandia/California's Materials Physics Department seeks a postdoctoral researcher to conduct experimental research in nanoelectronics and nanophotonics. The selected candidate will work with staff in our department to assemble, characterize, and test electronic and optoelectronic devices using nanomaterials such as carbon nanotubes and nanowires.

The annual salary for this position is $80,000.

QUALIFICATIONS

This position requires a recent PhD (conferred within the past five years) in materials science, physics, chemistry, or a closely related field. Published evidence of scientific contributions is also expected, as is the ability to work in teams and establish strong collaborations.

Apply at: http://sandia.gov/careers/search-openings.html. Click on Search for Openings, and type the Job ID number **64278** into the Keywords box. Click on the Search button to access this job opening, and complete an online application.

ABOUT SANDIA

Located in Livermore, Sandia/California enjoys close proximity to San Francisco, Silicon Valley, several world-class educational institutions, and diverse cultural and year-round recreational opportunities. Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) savings plan. Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, three weeks of vacation, and more.

FOR ADDITIONAL INFORMATION, CONTACT:

Dr. Francois Léonard
(925) 294-3511 / fleonar@sandia.gov
http://nanoelectronics-nanophotonics.com

Dr. Sarah Allendorf
(925) 294-3379 / swallen@sandia.gov